

CLAIMS

1. An organic electroluminescent display comprising a plurality of display devices provided on a substrate, the display devices including:

a first electrode element arranged on the substrate;

a second electrode element arranged adjacently to the first electrode element;

an organic light-emitting element that emit light by means of an electric field supplied by the first electrode element and the second electrode element and is formed on the substrate so as to cover both the first electrode element and the second electrode element; and

a separator in a substrate laminating direction that is arranged between the first electrode element and the second electrode element and separates to insulate at least the first electrode element from the second electrode element;

wherein carbon nanotube is mixed into the organic light-emitting element.

2. The organic electroluminescent display according to claim 1, characterized in that the carbon nanotube is mixed between a surface crossing the organic light-emitting element in the organic light-emitting element on the side closer to the first electrode than the separator and the first electrode element.

3. The organic electroluminescent display according to claim 1, characterized in that the carbon nanotube is mixed between a surface crossing the organic light-emitting element

in the organic light-emitting element on the side closer to the second electrode element than the separator and the second electrode element.

4. The organic electroluminescent display according to claim 1, characterized in that the carbon nanotube is mixed between a surface crossing the organic light-emitting element in the organic light-emitting element on the side closer to the first electrode than the separator and the first electrode element, and between a surface crossing the organic light-emitting element in the organic light-emitting element on the side closer to the second electrode element than the separator and the second electrode element.

5. The organic electroluminescent display according to claim 1, characterized in that the carbon nanotube is mixed between a surface crossing the organic light-emitting element in the organic light-emitting element on the side closer to the first electrode element than the separator and the second electrode element.

6. The organic electroluminescent display according to claim 1, characterized in that the carbon nanotube is mixed between a surface crossing the organic light-emitting element in the organic light-emitting element on the side closer to the second electrode element than the separator and the first electrode element.

7. The organic electroluminescent display according to any one of claims 1, 2, 3, 4, 5 and 6, characterized in that at least one of the first electrode element and the second electrode

element is formed transparently.

8. The organic electroluminescent display according to any one of claims 1, 2, 3, 4, 5 and 6, characterized in that both the first electrode element and the second electrode element are made of a material having resistivity of smaller than $10^{-4} \Omega \cdot \text{cm}$.

9. The organic electroluminescent display according to claim 7, characterized in that both the first electrode element and the second electrode element are made of a material having resistivity of smaller than $10^{-4} \Omega \cdot \text{cm}$.

10. The organic electroluminescent display according to any one of claims 1, 2, 3, 4, 5, 6 and 9, characterized in that a plurality of the band-shaped first electrode elements are arranged in a line form, and a plurality of the band-shaped second electrode elements are arranged in a line form via an insulating layer so as to cross the first electrode elements.

11. The organic electroluminescent display according to claim 7, characterized in that a plurality of the band-shaped first electrode elements are arranged in a line form, and a plurality of the band-shaped second electrode elements are arranged in a line form via an insulating layer so as to cross the first electrode elements.

12. The organic electroluminescent display according to claim 8, characterized in that a plurality of the band-shaped first electrode elements are arranged in a line form, and a plurality of the band-shaped second electrode elements are arranged in a line form via an insulating layer so as to cross

the first electrode elements.

13. The organic electroluminescent display according to claim 10, characterized in that a plurality of band-shaped grooves are provided in a line form on the first electrode elements so as to cross the first electrode elements, the second electrode elements are arranged in the grooves, respectively, via the insulating layer, and a height of a boundary between the first electrode elements and the organic light-emitting element from the substrate is approximately equal to a height of a boundary between the second electrode elements and the organic light-emitting element from the substrate.

14. The organic electroluminescent display according to any one of claims 11 and 12, characterized in that a plurality of band-shaped grooves are provided in a line form on the first electrode elements so as to cross the first electrode elements, the second electrode elements are arranged in the grooves, respectively, via the insulating layer, and a height of a boundary between the first electrode elements and the organic light-emitting element from the substrate is approximately equal to a height of a boundary between the second electrode elements and the organic light-emitting element from the substrate.

15. The organic electroluminescent display according to any one of claims 1, 2, 3, 4, 5, 6, 9, 11, 12 and 13, characterized in that the first electrode element has an anode electrode side function element which is adjacent to the organic light-emitting element and has at least one of a hole transport function and a hole injecting function, or the second electrode element has

a cathode electrode side function element which is adjacent to the organic light-emitting element and has at least one of an electron transport function and an electron injecting function, and the first electrode element serves as an anode and the second electrode element serves as a cathode.

16. The organic electroluminescent display according to claim 7, characterized in that the first electrode element has an anode side function element which is adjacent to the organic light-emitting element and has at least one of a hole transport function and a hole injecting function, or the second electrode element has a cathode side function element which is adjacent to the organic light-emitting element and has at least one of an electron transport function and an electron injecting function, and the first electrode element serves as an anode and the second electrode element serves as a cathode.

17. The organic electroluminescent display according to claim 8, characterized in that the first electrode element has an anode side function element which is adjacent to the organic light-emitting element and has at least one of a hole transport function and a hole injecting function, or the second electrode element has a cathode side function element which is adjacent to the organic light-emitting element and has at least one of an electron transport function and an electron injecting function, and the first electrode element serves as an anode and the second electrode element serves as a cathode.

18. The organic electroluminescent display according to claim 10, characterized in that the first electrode element has

an anode side function element which is adjacent to the organic light-emitting element and has at least one of a hole transport function and a hole injecting function, or the second electrode element has a cathode side function element which is adjacent to the organic light-emitting element and has at least one of an electron transport function and an electron injecting function, and the first electrode element serves as an anode and the second electrode element serves as a cathode.

19. The organic electroluminescent display according to claim 14, characterized in that the first electrode element has an anode side function element which is adjacent to the organic light-emitting element and has at least one of a hole transport function and a hole injecting function, or the second electrode element has a cathode side function element which is adjacent to the organic light-emitting element and has at least one of an electron transport function and an electron injecting function, and the first electrode element serves as an anode and the second electrode element serves as a cathode.